



# Port of Long Beach: Path to Zero Emissions



Port of  
**LONG BEACH**  
*The Green Port*

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# WHAT IS THE PORT?

More than just cranes and ships, the iconic Port of Long Beach is a key economic engine for Southern California and critical to the world trade ecosystem.

PORT OF LONG BEACH 101



#2

Busiest port in the U.S.



\$180  
BILLION

Worth of cargo is imported through the port annually



300  
THOUSAND

Jobs created regionwide

**Although a public agency, the Port's operations are not supported by tax dollars.**

Instead, its revenues come from leasing marine terminals.



# GREEN PORT POLICY

Leading the way in reducing environmental impacts

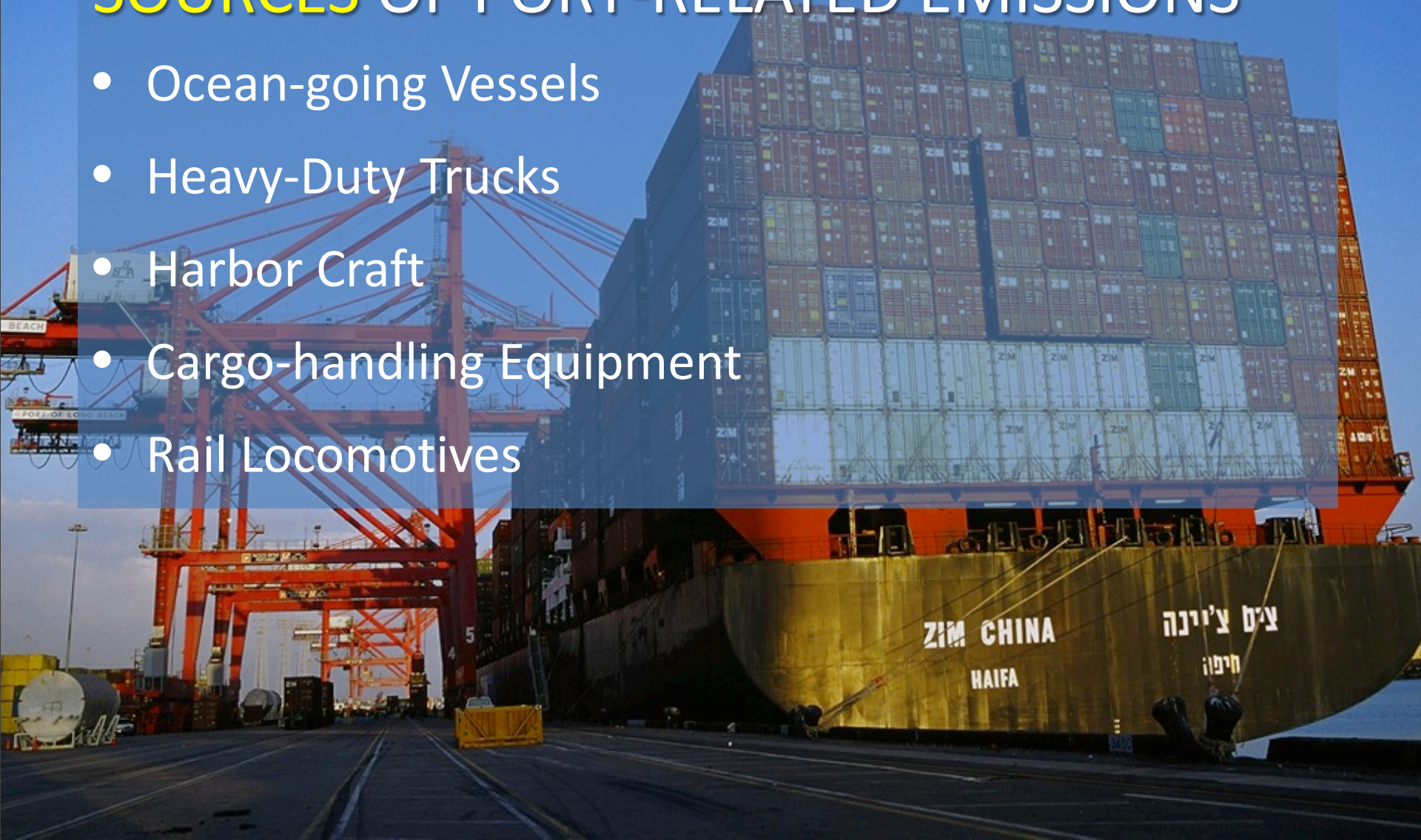


# CLEAN AIR ACTION PLAN

Decrease emissions from port-related operations

# SOURCES OF PORT-RELATED EMISSIONS

- Ocean-going Vessels
- Heavy-Duty Trucks
- Harbor Craft
- Cargo-handling Equipment
- Rail Locomotives





# OCEAN GOING VESSELS

VSR, Low Sulfur Fuel, At-berth Controls, Clean Ships



# CLEAN TRUCK PROGRAM

Progressive Ban, Dirty Truck Fee, Incentives

**Diesel  
Particulate  
Matter**

Down

**85%**

**2014  
Achieved**

**2014**

**72%**

**2023**

**77%**

**Nitrogen  
Oxides**

Down

**50%**

**2014  
Achieved**

**2014**

**22%**

**2023**

**59%**

**Sulfur  
Oxides**

Down

**97%**

**2014  
Achieved**

**2014 & 2023**

**93%**

# Clean Air Progress and Goals





# CONTINUED COMMITMENT

Evolution of the Green Port Policy



# CAPITAL IMPROVEMENTS

\$4+ billion Investment in the Port of the Future



# MIDDLE HARBOR

All-electric, remote-controlled yard tractors



# BATTERY EXCHANGE

Robots will replace batteries for driverless vehicles



# EMERGING TECHNOLOGIES

Investing to accelerate commercial availability of clean technology



# ENERGY ISLAND

Advancing green power, clean fuels, energy efficiency